Date:

Friday, 02/05/2008 7:03:22 AM

User:

Linda Lacelle

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

S.O. No. :

Job Number **Estimate Number** : 38973

: 10000

P.O. Number

This Issue Prsht Rev.

Previous Run

First Issue

Written By

Comment

: 02/05/2008

: NC

: // : 37908

Type

: SMALL /MED FAB

Re-format EC

Part Number

: D2003011

: TUBE ASSEMBLY

Drawing Number

Drawing Name

: UNDER REVIEW

Project Number

: N/A

Drawing Revision

: B

Material **Due Date**

: 09/05/2008

Qty:

5 Um:

Each

Additional Product

Checked & Approved By

Job Number:



: Est Rev: 8 99.11.11

Seq. #:

Machine Or Operation:

Description:

1.0

M6061T6T0375W035

6061-T6 Tube .375 x.035W



Comment: Qty.:

3.5200 f(s)/Unit Total:

17.6000 f(s)

Cut: 32.38" long as per Dwg D2003

Material:3/8"Æ x 0.035" wall 6061-T6 tubing

Batch: M104921

FF 08-05-16

2.0

. M26506

Firesleeve-crkl .375IDia



Comment: Qty.:

3.0525 f(s)/Unit

Total: 15.2625 f(s)

Firesleeve-crkl .375lDia

Cut: 33.31" long as per Dwg D2003 Material: M2650-6 Heat sleeve

FF 08-05-20

3.0

MS208196D

Sleeve

Comment: Qty.:

2.1000 Each(s)/Unit Total:

10.5000 Each(s)

Pick:

Qty

Part Number Description

MS20819-6D Sleeve

1107534x 5

FF 08-05-20

W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	<u> </u>	PAR #:	Fault Category:	NCR: Yes	No DQ	A:	Date: _	
				QA:	N/C Close	d:	Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B		Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					
		•											
	-												
						(4)							
								3.					

NOTE: Date & initial all entries

Friday, 02/05/2008 7:03:22 AM Date: User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: TUBE ASSEMBLY Job Number: 38973 Part Number: D2003011 Job Number: Seq. #: Description: Machine Or Operation: 4.0 AN8186D Nut Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Pick: Part Number Description Batch FF 08-05-20 AN818-6D Nut 5.0 D2182045 Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s) Pick: Batch Part Number Description D2182-045 Heat shrink SMALL FAB SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Form tube as per template D2003-011 5 2-Assemble as per Dwg D2003 001-05-20 INSPECT WORK TO CURRENT STEP 7.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 8.0 PACKAGING RESOURCE #1 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: QC21 FINAL INSPECTION/W/O RELEASE 9.0 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
			4									
Part No	:D200	3-011 PAR#: NA Fault Category: Prod For Ass' med & Sme	R: Yes	No DQA	1: 2	Date:	105/01					

Date:

QA: N/C Closed:

NCR: 39	3973	WORK ORDER NON-CONFORMANCE (NCR)											
DATE	STEP	Description of NC Section A	Corrective Action Section B Initial Action Description Sign &			Verification Section C	Approval Chief Eng	Approval QC Inspecto					
00/05/20	6	Last bend on Tube bend From the willing evay scraped + Destroyed + Repla RL Hummon error	Chief Eng	Scraped+ Destroyed Replaced and	PF 08/05/26	36/30	Posiur	ados las					

NOTE: Date & initial all entries

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	DESIG	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
	CHEC	KED	APPROVED	DRAWING NO. REV. B
	4	45	1 4	D2003 SHEET 1 OF 2
1	DATE	,		TITLE SCALE
	99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
	Α		90.04.09	NEW ISSUE
	В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)

RELEASED 49.00.09 KED

UNDER REVIEW

1028973

										}		,
		HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	9)	457	VENDOR OR
P/N	TEMPLATE									DESC.	MATERIAL 4/6/7	SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2.	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0		(1)						HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6

W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
					:									
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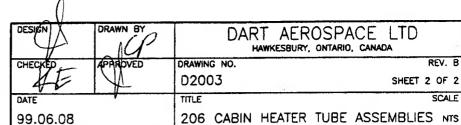
Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C	Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section E	}	Verification	Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
-												
				Å				1				

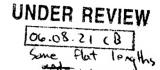
NOTE: Date & initial all entries





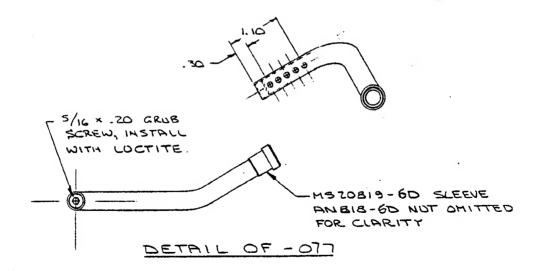






Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.



W/O:			W	ORK ORDER CH	ANGES	!			
DATE	STEP	PROCEDURE CHANGE			В	y Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			y.					:	
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8								<i>\\</i>	
Part No	•	PAR #:	Fault Cate	adory.	NCR· \	res No Do	DA:	Date:	

Part No:	PAR #:	Fault Category:		NCR: Yes	No	DQA:	Date:
			*	QA: N	I/C CI	osed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	7	Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	gn & Section C	Chief Eng	QC Inspecto					
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NOTE: Date & initial all entries